8. Schematic Diagrams

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Note

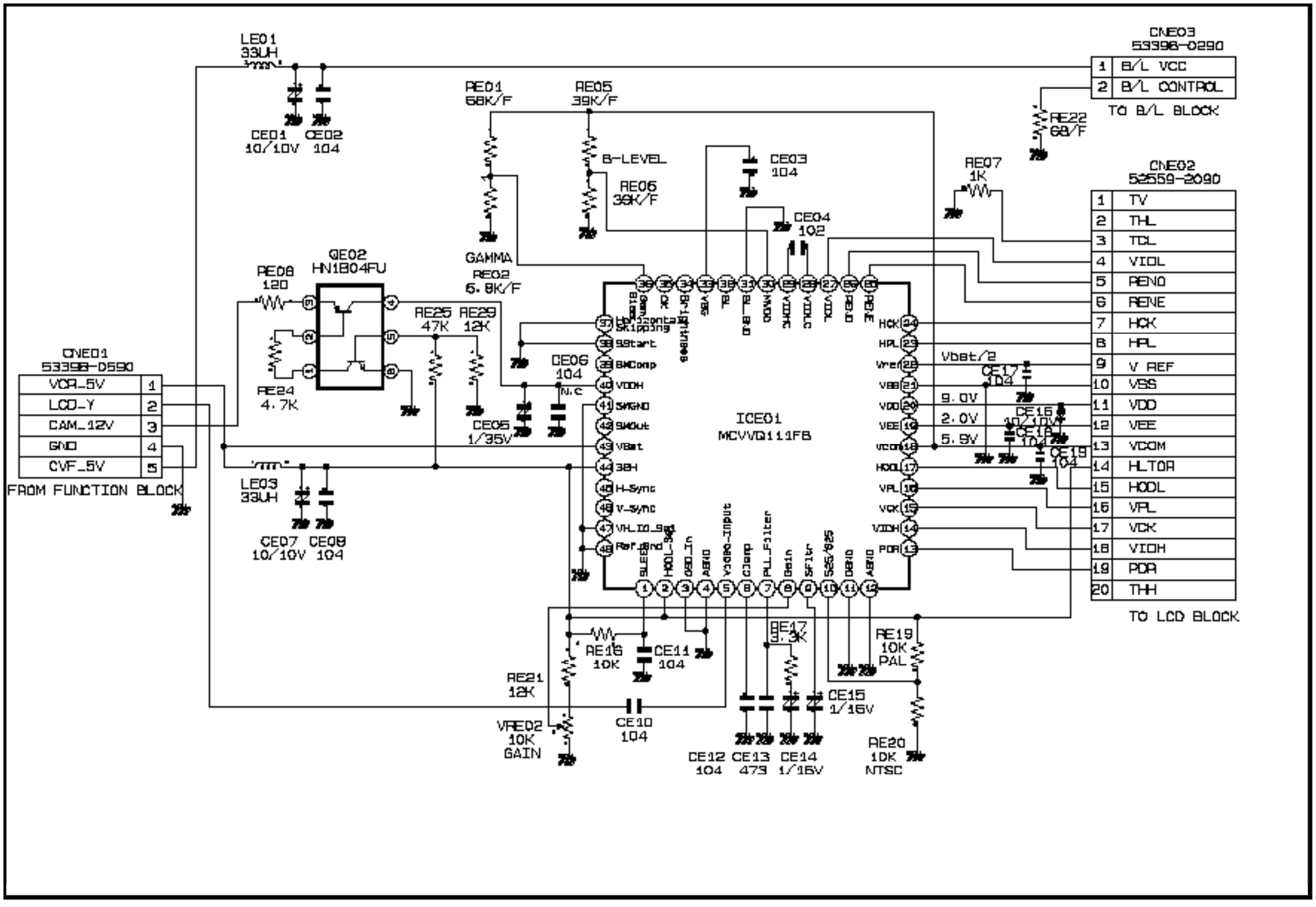
For schematic Diagram
- Resistors are in ohms, 1/8W unless otherwise noted.
- Circled numbers refer to waveforms.

Special note :
Most semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the “electrostatically sensitive (ES) devices” section of this service manual.

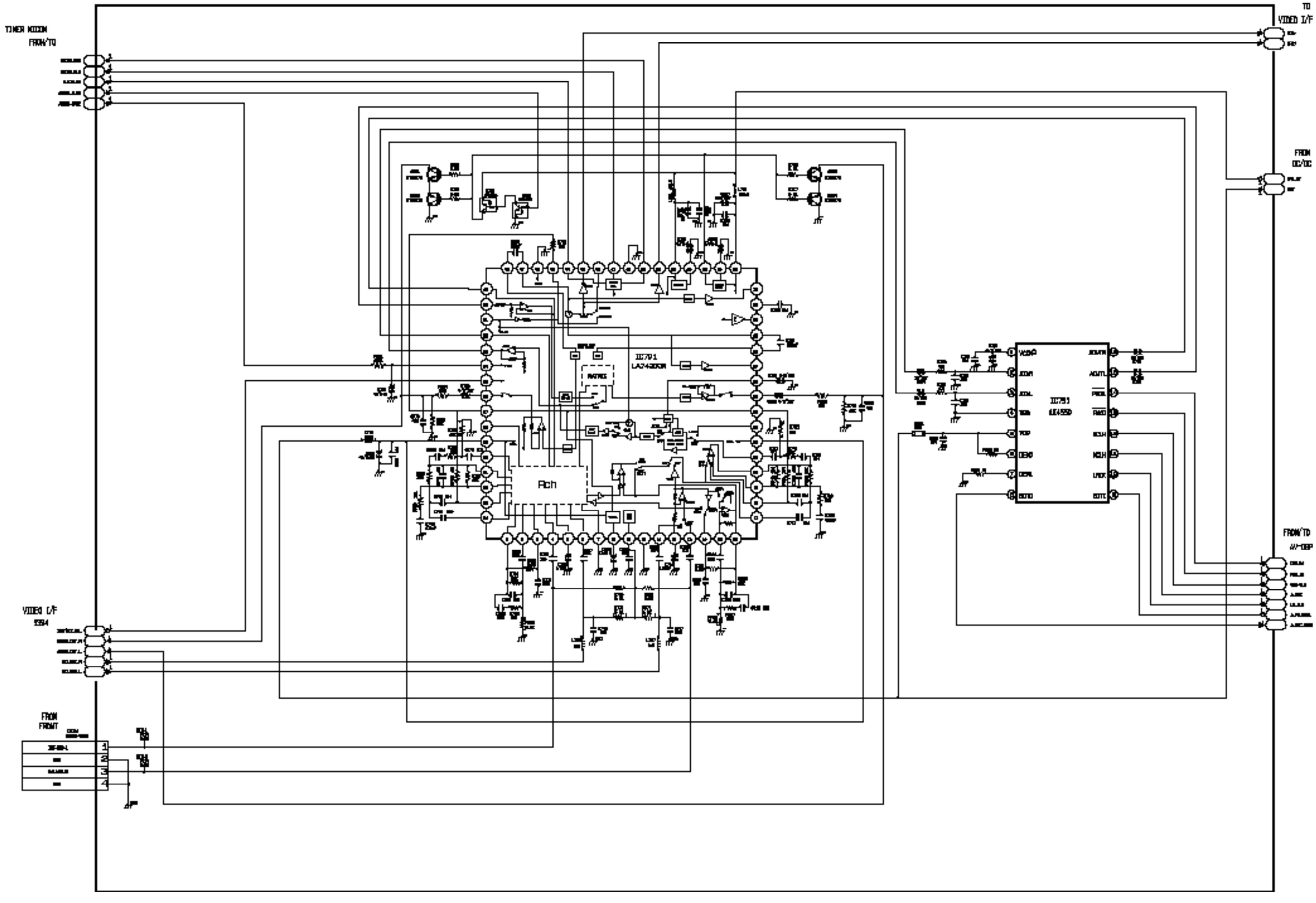
Note :
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list (may be slightly different or amended since this drawing was prepared).

Important safety notices :
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components. Use only the same type.

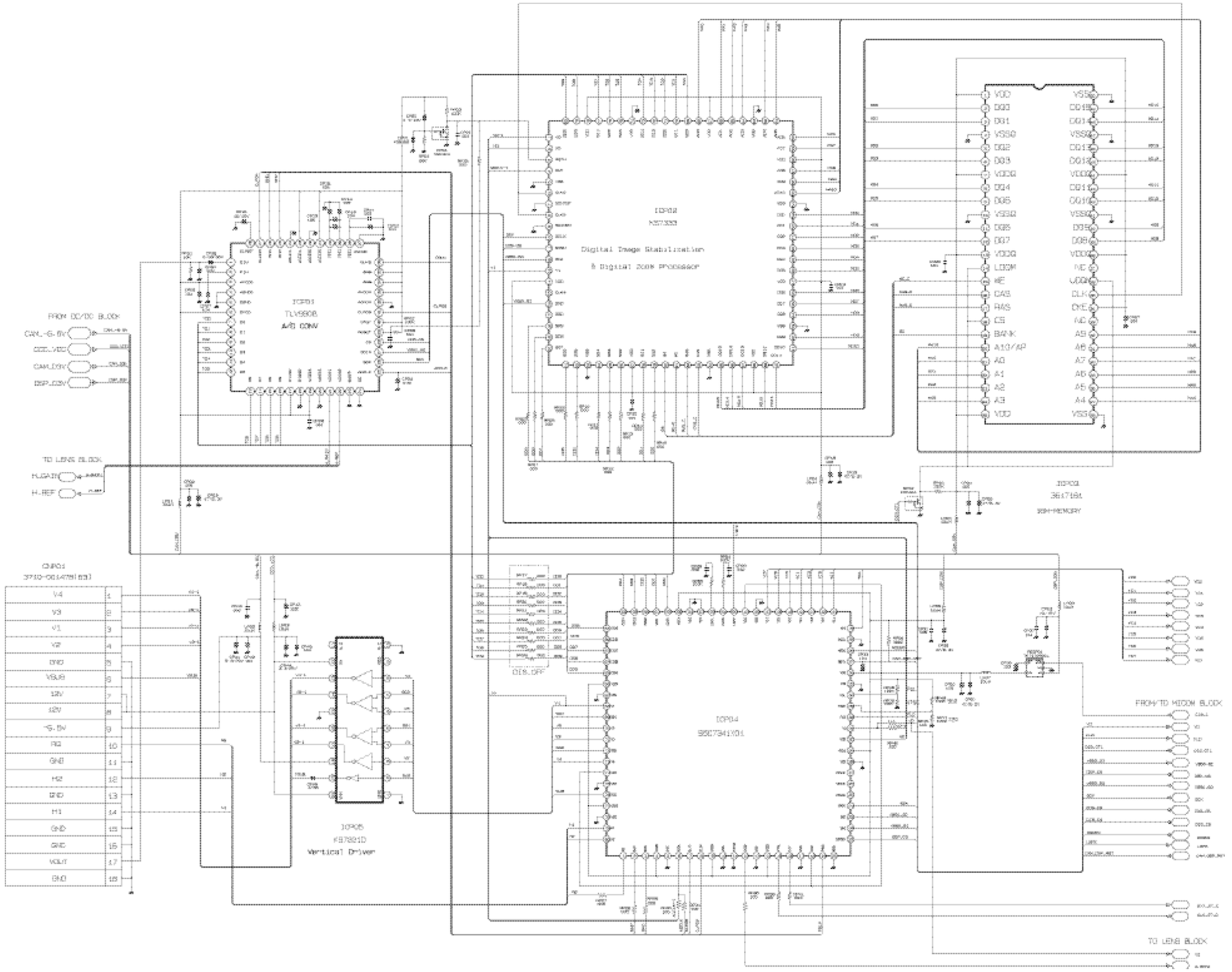
8-1 EVF


LE01
33UH
CE01 CE02
10/10V 104
RE01
68K/F
RE05
39K/F
B-LEVEL
RE06
39K/F
CE03
104
CE04
102
GAMMA
RE02
6.8K/F
QE02
HN1B04FU
RE08
120
RE24
4.7K
RE25 RE29
47K 12K
CE05
1/35V
CE06
104
N.c
CNE01
53398-0590
VCR_5V 1
LCD_Y 2
CAM_12V 3
GND 4
CVF_5V 5
FROM FUNCTION BLOCK
LE03
33UH
CE07 CE08
10/10V 104
ICE01
MCVVQ111FB
RE22
68/F
CNE03
53398-0290
1 B/L VCC
2 B/L CONTROL
TO B/L BLOCK
RE07
1K
CNE02
52559-2090
1 TV
2 THL
3 TCL
4 VIOL
5 RENO
6 RENE
7 HCK
8 HPL
9 V REF
10 VSS
11 VDD
12 VEE
13 VCOM
14 HLTOR
15 HCOL
16 VPL
17 VCK
18 VIOH
19 PDR
20 THH
TO LCD BLOCK
Vbat/2
9.0V
2.0V
5.9V
CE17
104
CE16
10/10V
CE18
104
CE19
104
RE16
10K
CE11
104
RE21
12K
VRE02
10K
GAIN
CE10
104
RE17
0.3K
CE15
1/16V
RE19
10K
PAL
RE20
10K
NTSC
CE12 CE13 CE14
104 473 1/16V

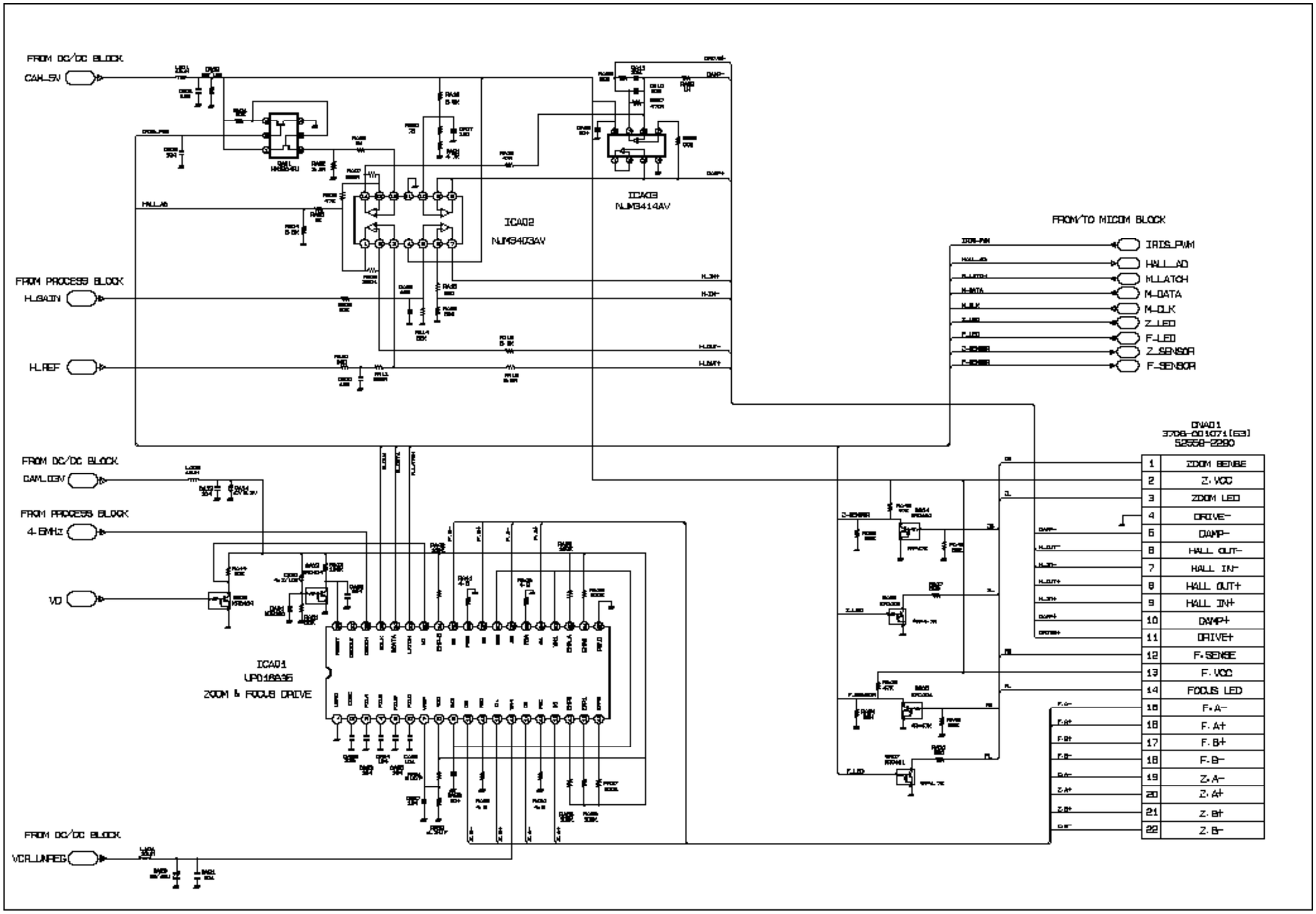
8-2 Audio


TIMER MODEM
FROM/TO
TO
VIDEO I/F
FROM
DC/DC
IC701
LA7430DR
Pch
IC751
VIDEO I/F
FROM
FRONT
FROM/TO

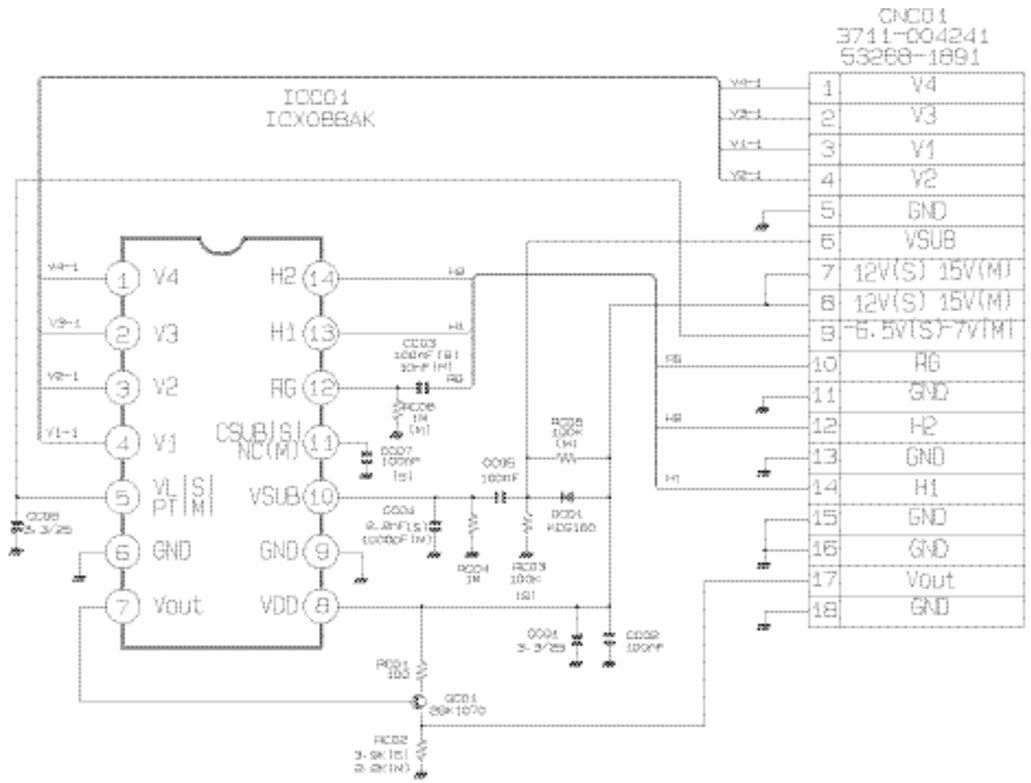
8-3 Camera


FROM DC/DC BLOCK
CAM_-5.6V
CCD_VDD
CAM_D3V
DSP_D3V
TO LENS BLOCK
H_GAIN
H_REF
IDP01
TLV5608
A/D CONV
IDP02
Digital Image Stabilization
& Digital Zoom Processor
IDP03
K9F1208
64M+16M BIT NAND FLASH MEMORY
IDP04
SSC7341X01
IDP05
KA7891D
Vertical Driver
CNP01
V4
V3
V1
VH
GND
VSUB
12V
12V
-5.6V
H2
GND
H2
GND
H1
GND
GND
VOUT
GND
DIS_OFF
FROM/TO MICOM BLOCK
TO LENS BLOCK

8-4 Camera A/F


FROM DC/DC BLOCK
CAM_5V
FROM PROCESS BLOCK
H_SAIN
H_REF
ICA02
NJM3403AV
ICA03
NJM3414AV
FROM/TO MICOM BLOCK
IRIS_PWM
HALL_AD
M_LATCH
M_DATA
M_CLK
Z_LED
F_LED
Z_SENSOR
F_SENSOR
CNA01
3708-001071(ES3)
52558-2290
1 ZOOM SENSE
2 Z.VCC
3 ZOOM LED
4 DRIVE-
5 DAMP-
6 HALL OUT-
7 HALL IN-
8 HALL OUT+
9 HALL IN+
10 DAMP+
11 DRIVE+
12 F.SENSE
13 F.VCC
14 FOCUS LED
15 F.A-
16 F.A+
17 F.B+
18 F.B-
19 Z.A-
20 Z.A+
21 Z.B+
22 Z.B-
FROM DC/DC BLOCK
CAM_DSV
FROM PROCESS BLOCK
4.5MHz
VD
ICA01
UPD16835
ZOOM & FOCUS DRIVE
FROM DC/DC BLOCK
VCR_UNREG

8-5 CCD



(ICX088AK) (MN39230FH)

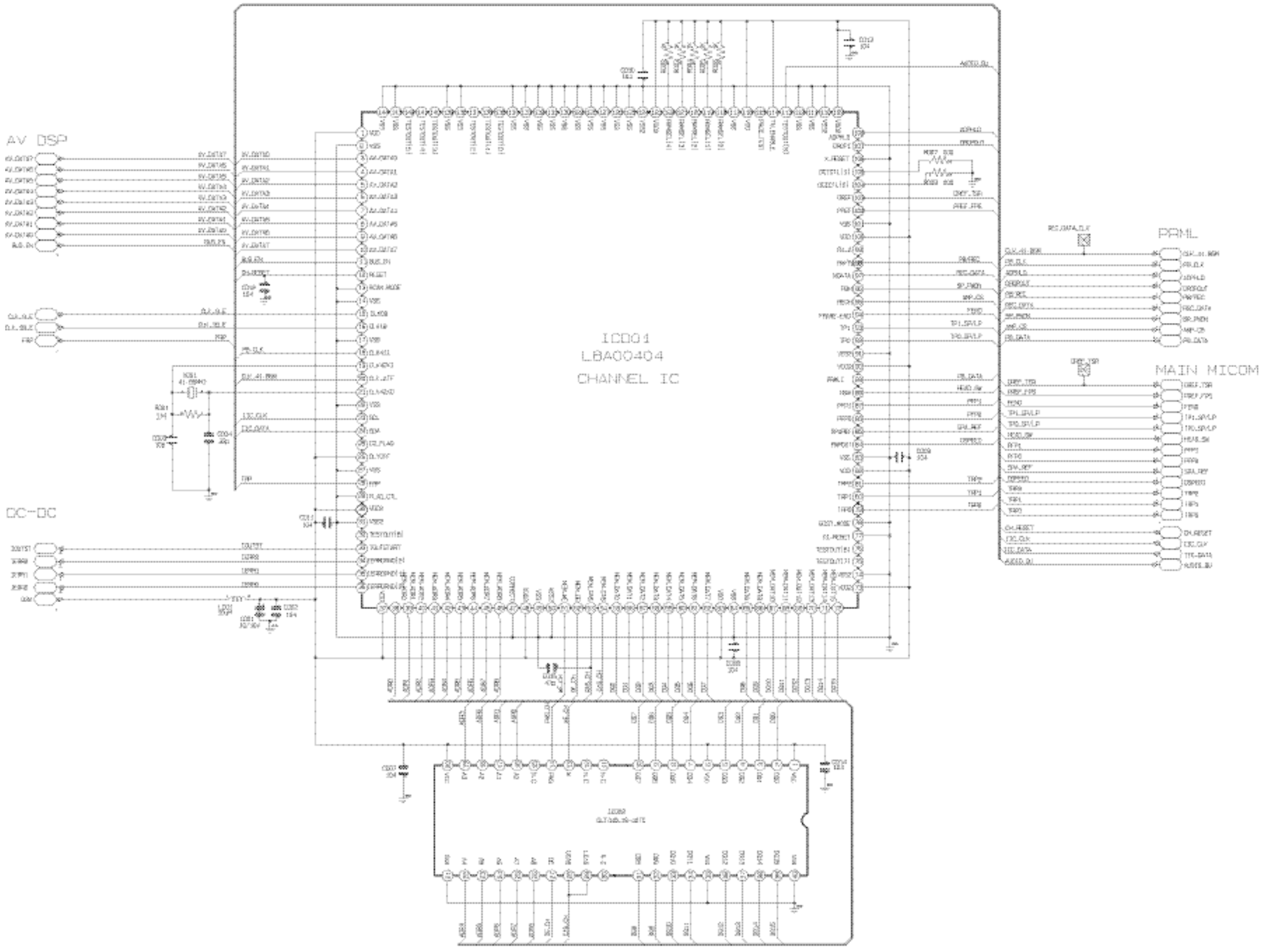
CAPACITY

	SONY	MATHUSHIDA
RC02	3.9K	2.2K
CC03	100nF	10nF
CC04	2.2nF	1000pF

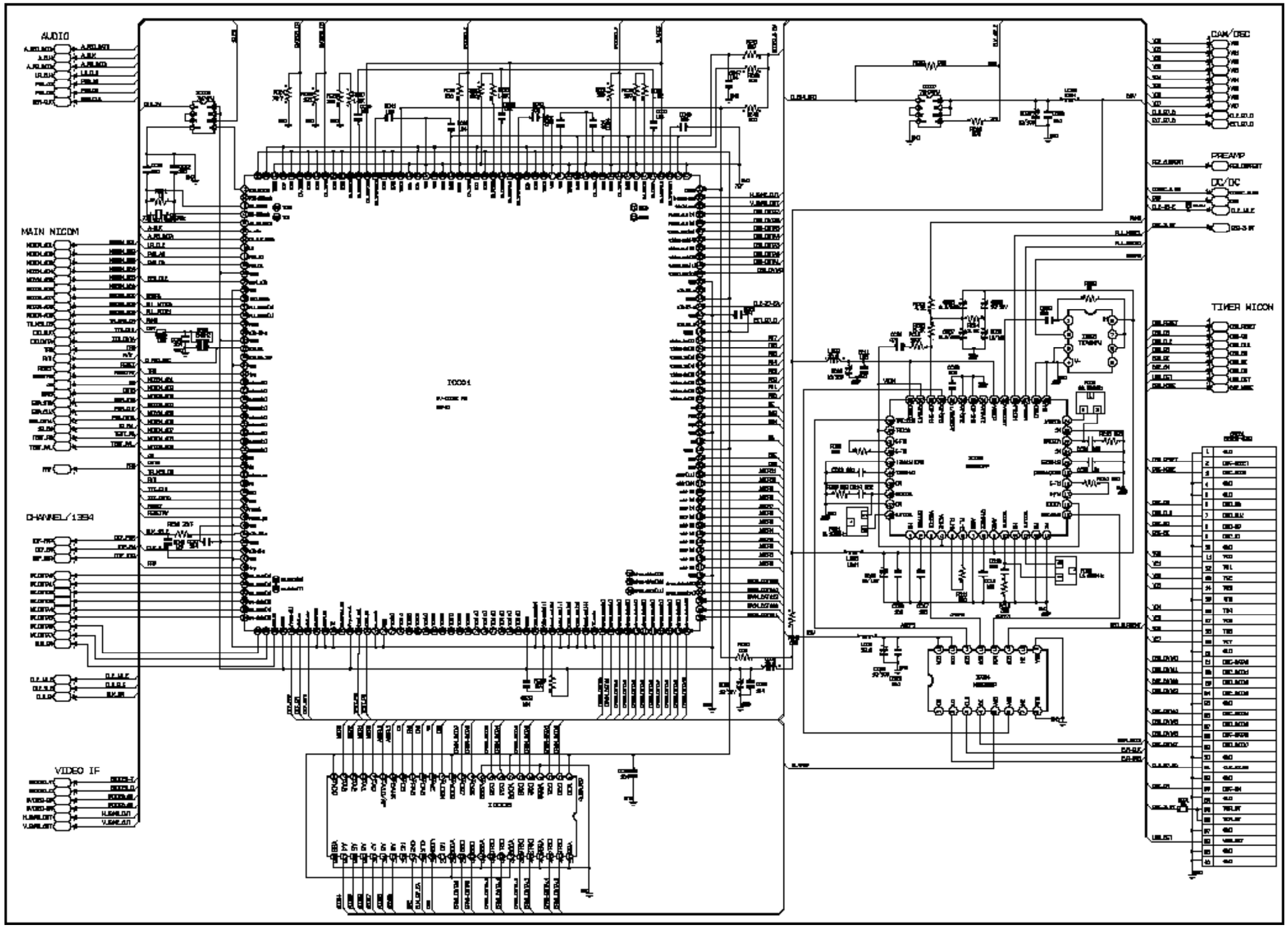
SMT

	SONY	MATHUSHIDA	
RC03	O	X	(100K)
RC05	X	O	(100K)
RC06	X	O	(1M)
CC07	O	X	(100nF)

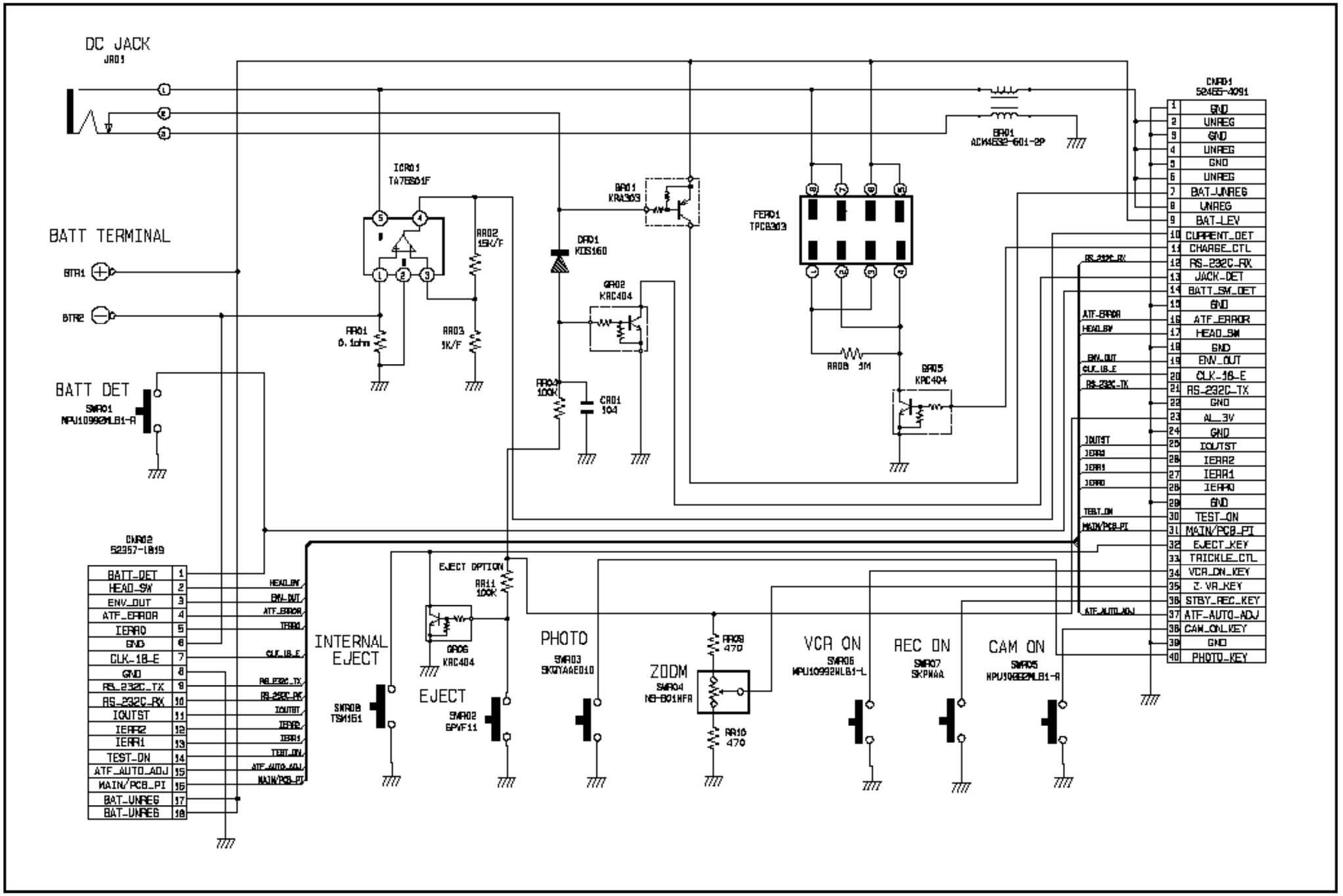
8-6 Channel



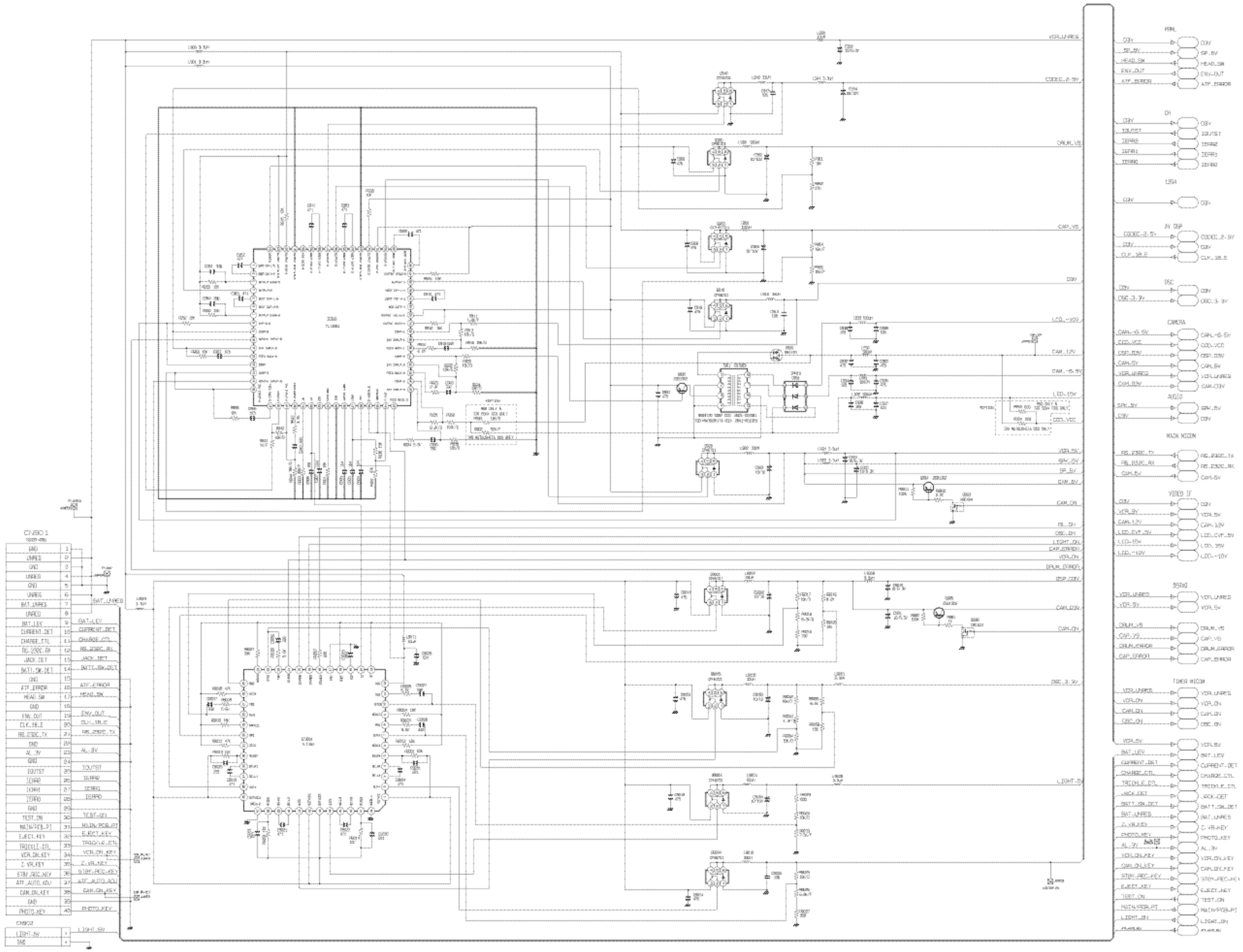
8-7 Codec


AUDIO
MAIN MICOM
CHANNEL/1394
VIDEO IF
CAM/DEC
PREAMP
DC/DC
TIMER MICOM

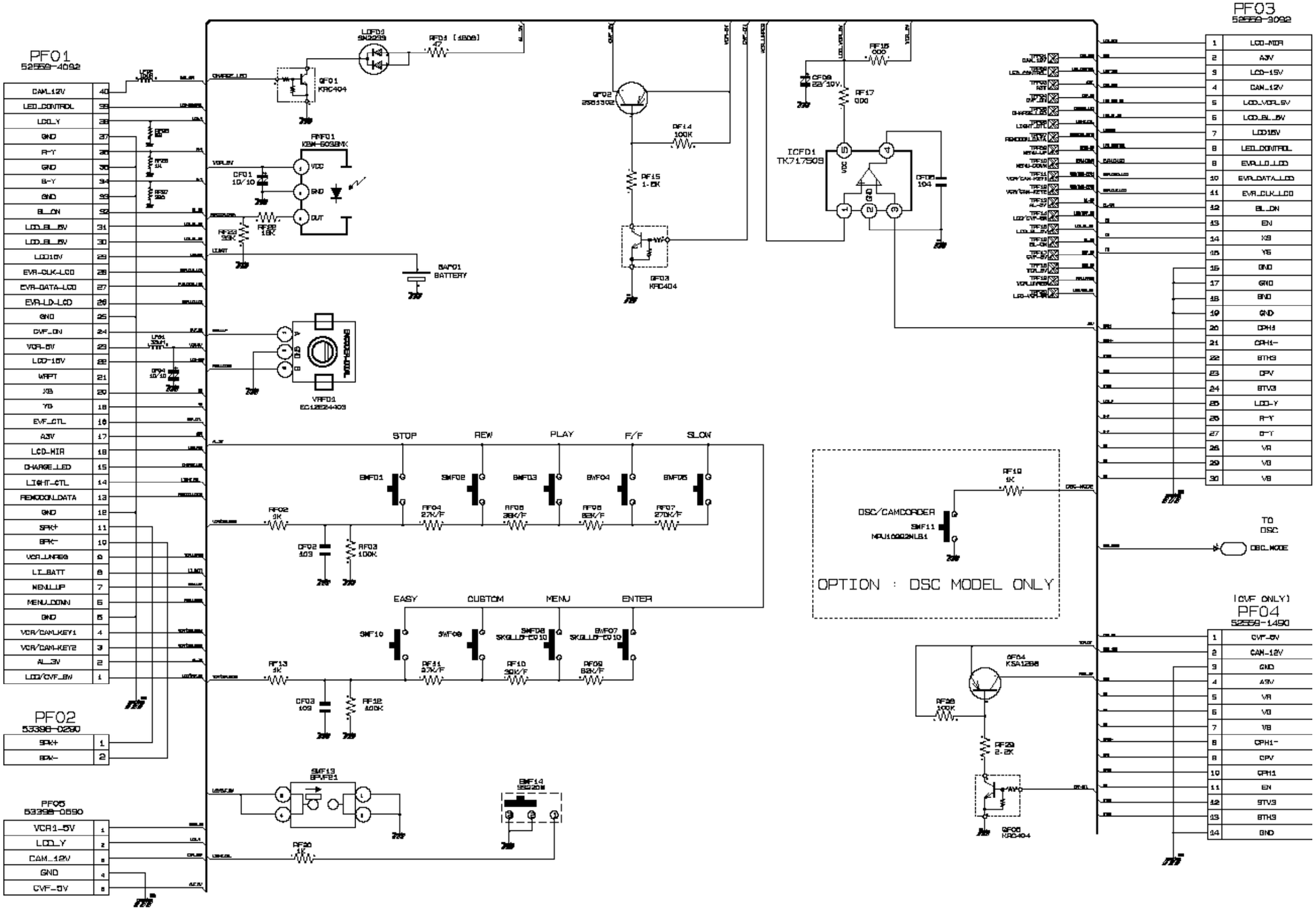
8-8 Rear


DC JACK
JAD1
BATT TERMINAL
BTR1
BTR2
BATT DET
SWR01
MPU10992MLB1-A
IGR01
TA78S01F
RR01
0.1ohm
RR02
15K/F
RR03
1K/F
DR01
KDS160
QR01
KRA303
QR02
KRC404
RR04
100K
CR01
104
FER01
TPC8303
RR08 1M
QR05
KRC404
BAR01
ACM4532-601-2P
CNR01
52465-4091
1 GND
2 UNREG
3 GND
4 UNREG
5 GND
6 UNREG
7 BAT_UNREG
8 UNREG
9 BAT_LEV
10 CURRENT_DET
11 CHARGE_CTL
12 RS-232C_RX
13 JACK-DET
14 BATT_SW_DET
15 GND
16 ATF_ERROR
17 HEAD_SW
18 GND
19 ENV_OUT
20 CLK_16_E
21 RS-232C_TX
22 GND
23 AL_3V
24 GND
25 IOUTST
26 IERR2
27 IERR1
28 IERR0
29 GND
30 TEST_ON
31 MAIN/PCB_PI
32 EJECT_KEY
33 TRICKLE_CTL
34 VCR_ON_KEY
35 Z.VR_KEY
36 STBY_REC_KEY
37 ATF_AUTO_ADJ
38 CAM_ON_KEY
39 GND
40 PHOTO_KEY
CNR02
52357-1819
BATT_DET 1
HEAD_SW 2
ENV_OUT 3
ATF_ERROR 4
IERR0 5
GND 6
CLK_16_E 7
GND 8
RS_232C_TX 9
RS_232C_RX 10
IOUTST 11
IERR2 12
IERR1 13
TEST_ON 14
ATF_AUTO_ADJ 15
MAIN/PCB_PI 16
BAT_UNREG 17
BAT_UNREG 18
INTERNAL EJECT
SWR08
TSH151
EJECT OPTION
RR11
100K
QR06
KRC404
EJECT
SWR02
SPVF11
PHOTO
SWR03
SKQYAAE010
ZOOM
SWR04
NSB01NFR
RR09
470
RR10
470
VCR ON
SWR06
MPU10992MLB1-L
REC ON
SWR07
SKPNAA
CAM ON
SWR05
MPU10992MLB1-A

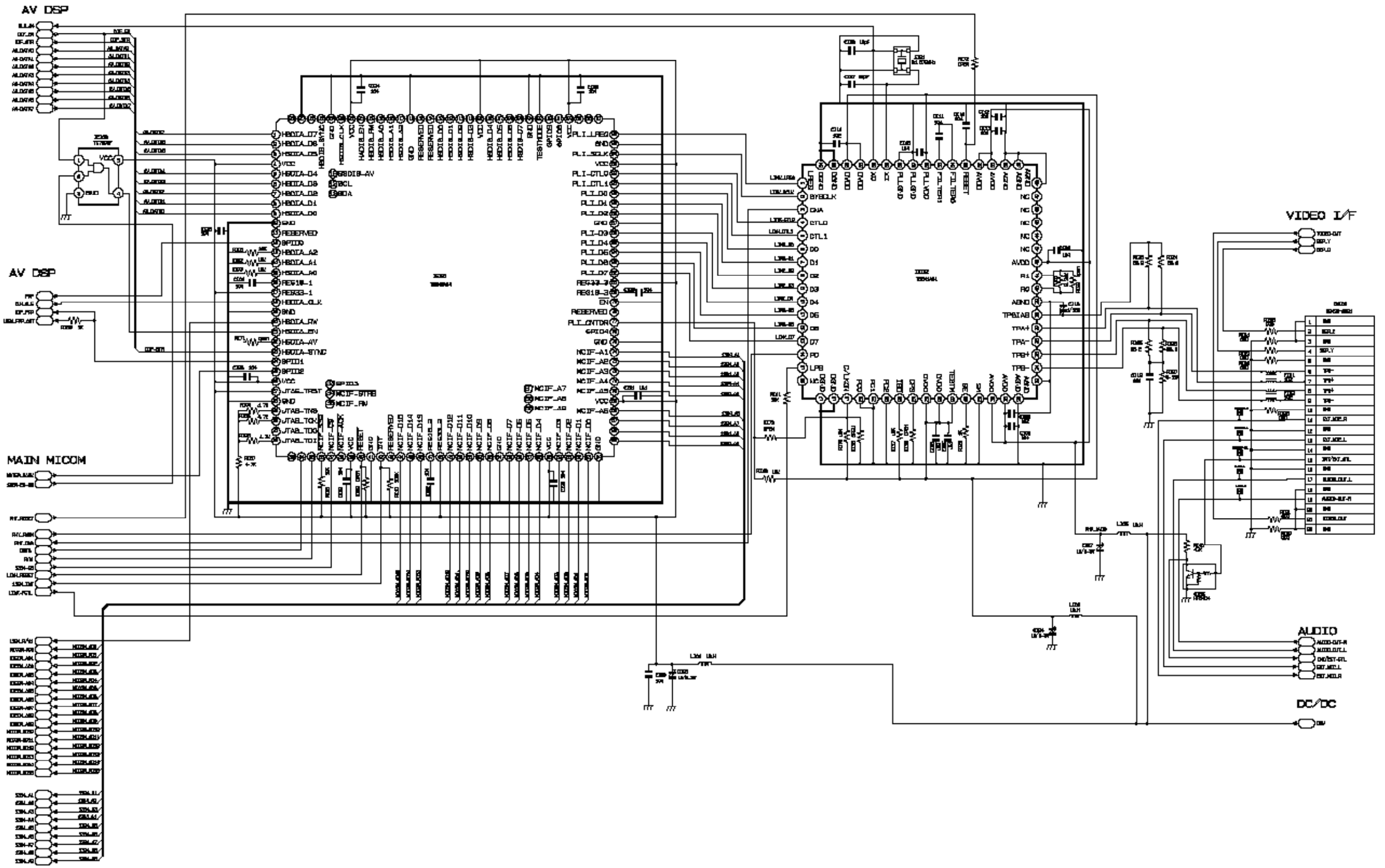
8-9 DC DC



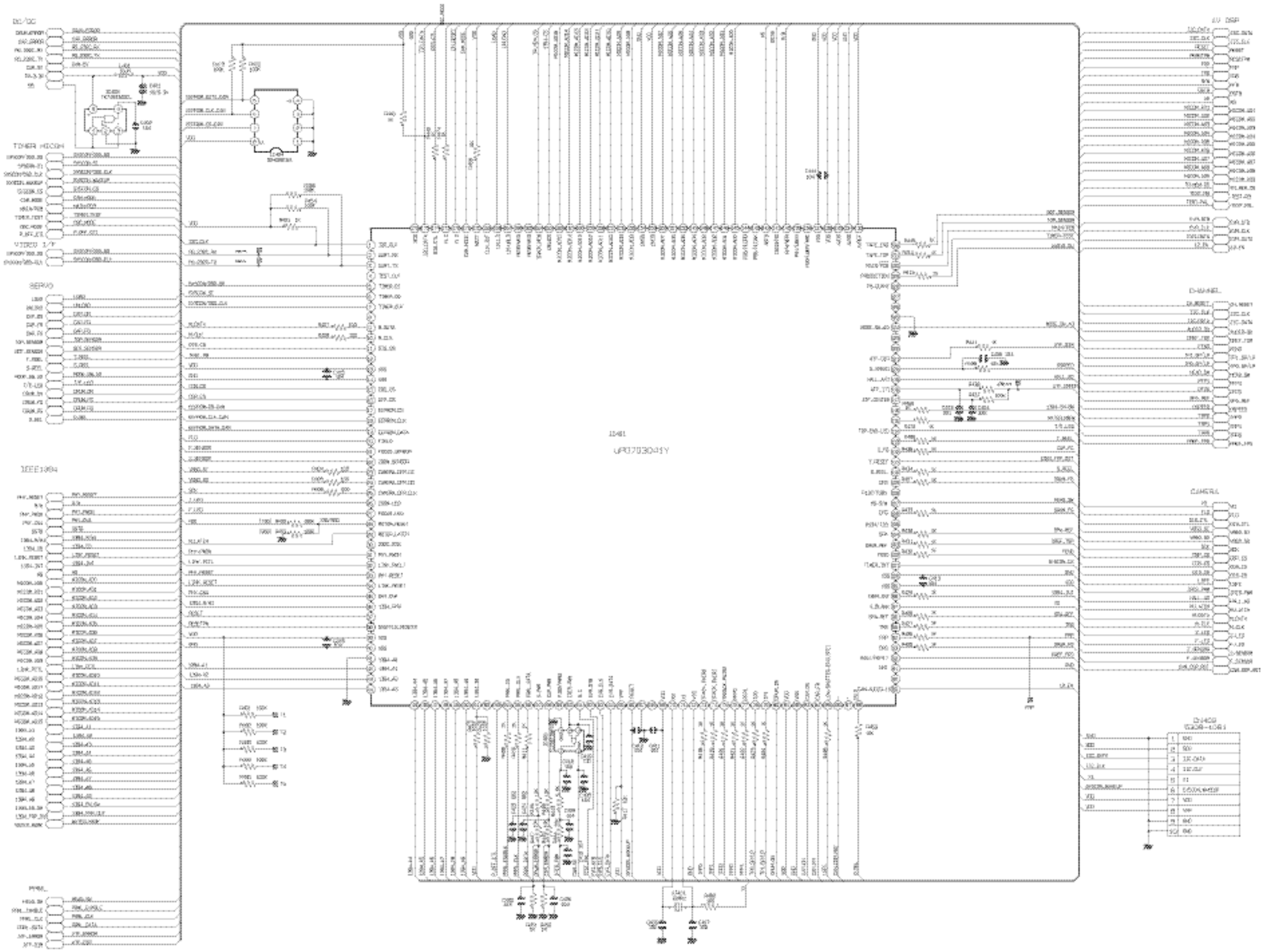
8-10 Function



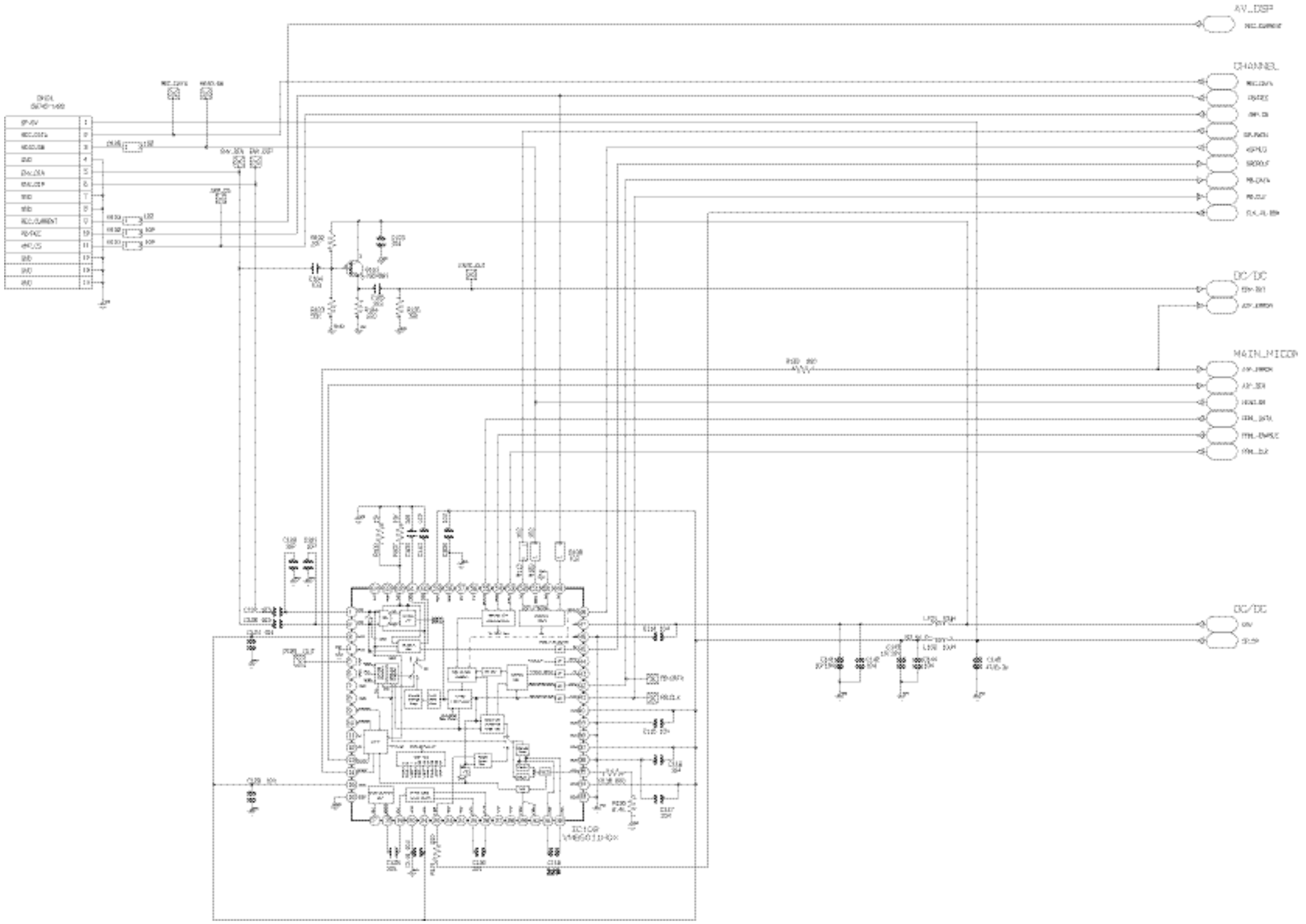
8-11 IEEE 1394



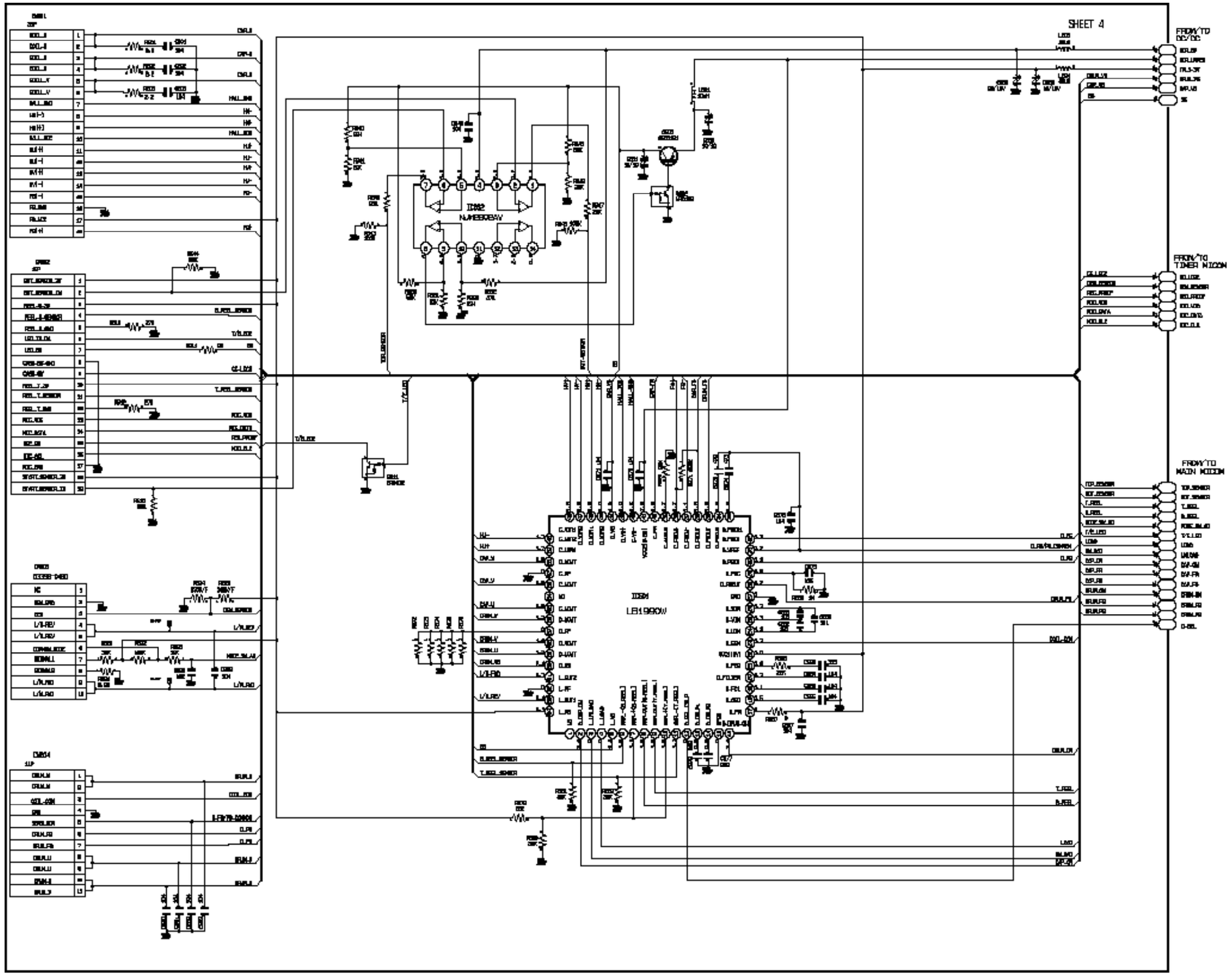
8-12 Main_Micom



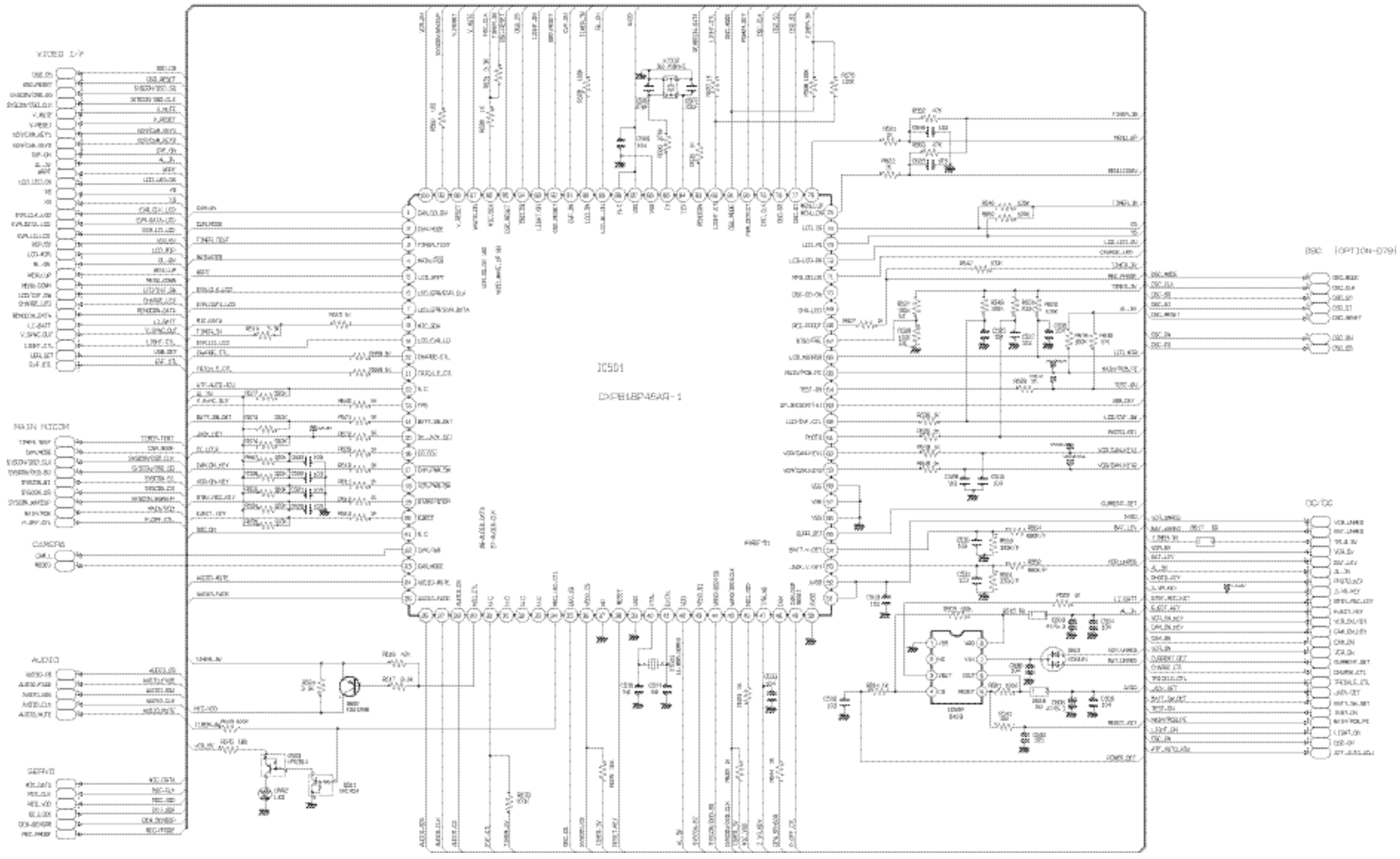
8-13 Prml



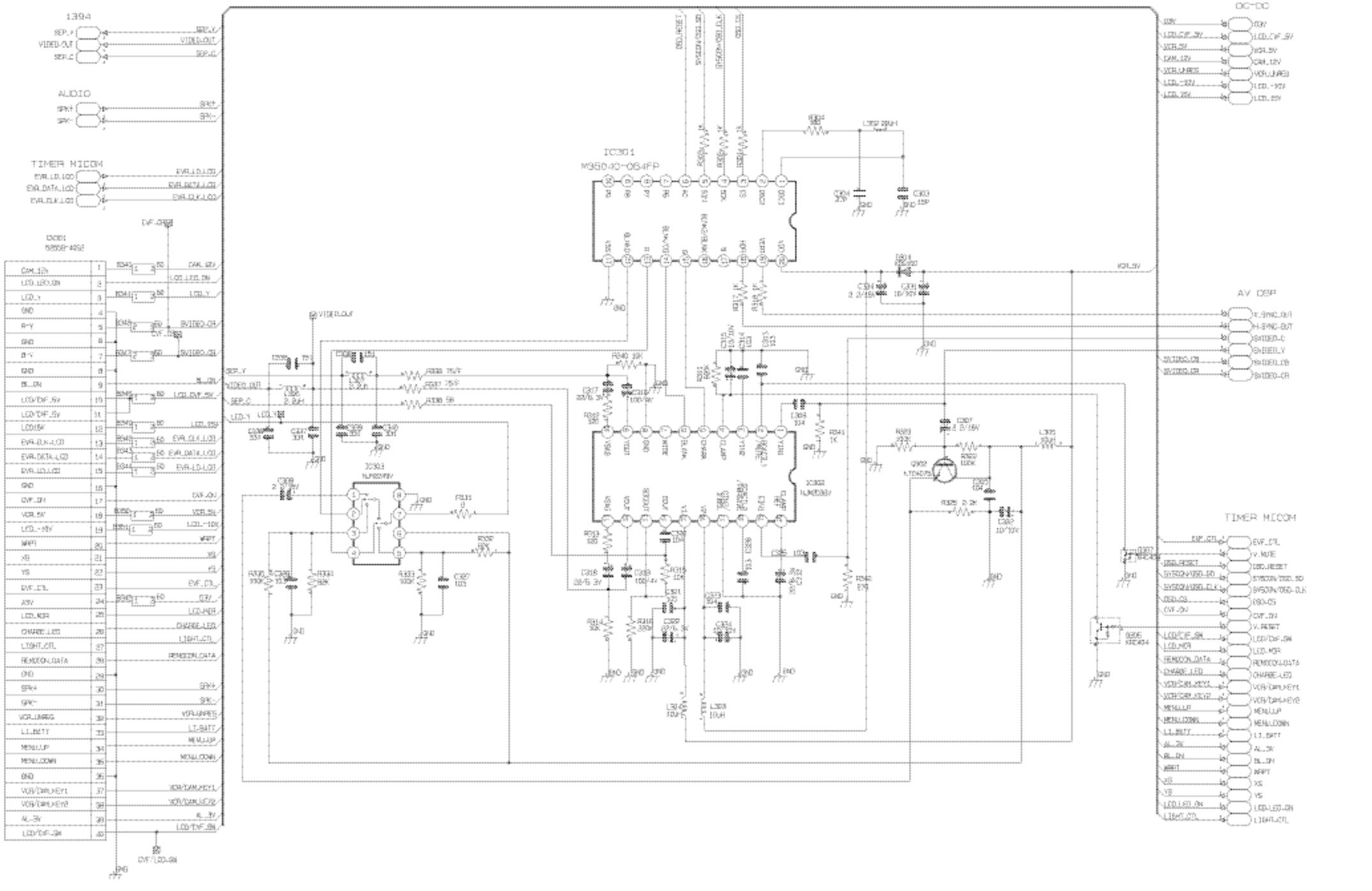
8-14 Servo


SHEET 4
FROM/TO DC/DC
FROM/TO TIMER MICOM
FROM/TO MAIN MICOM
LB1990W

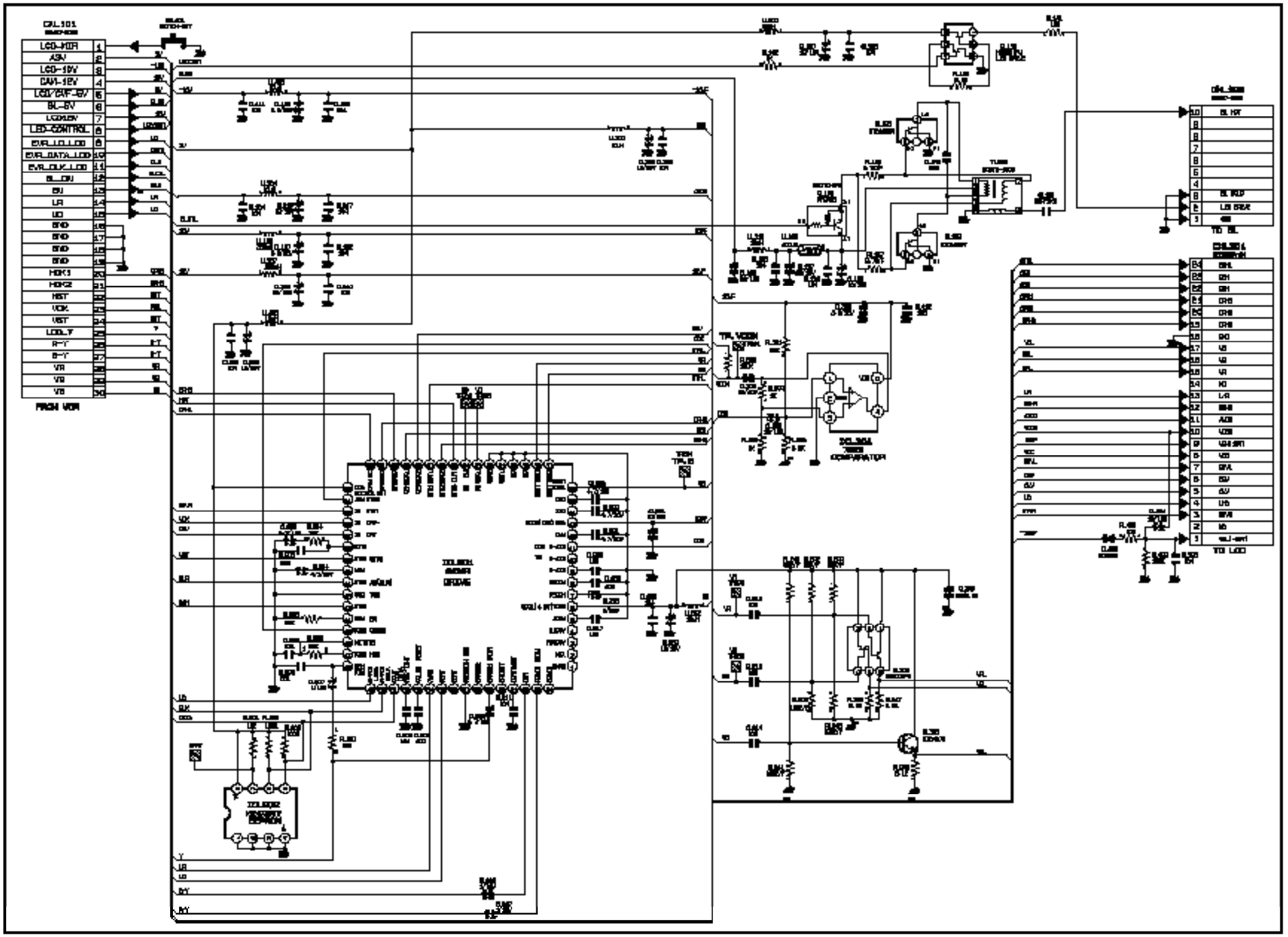
8-15 Timer-Micom



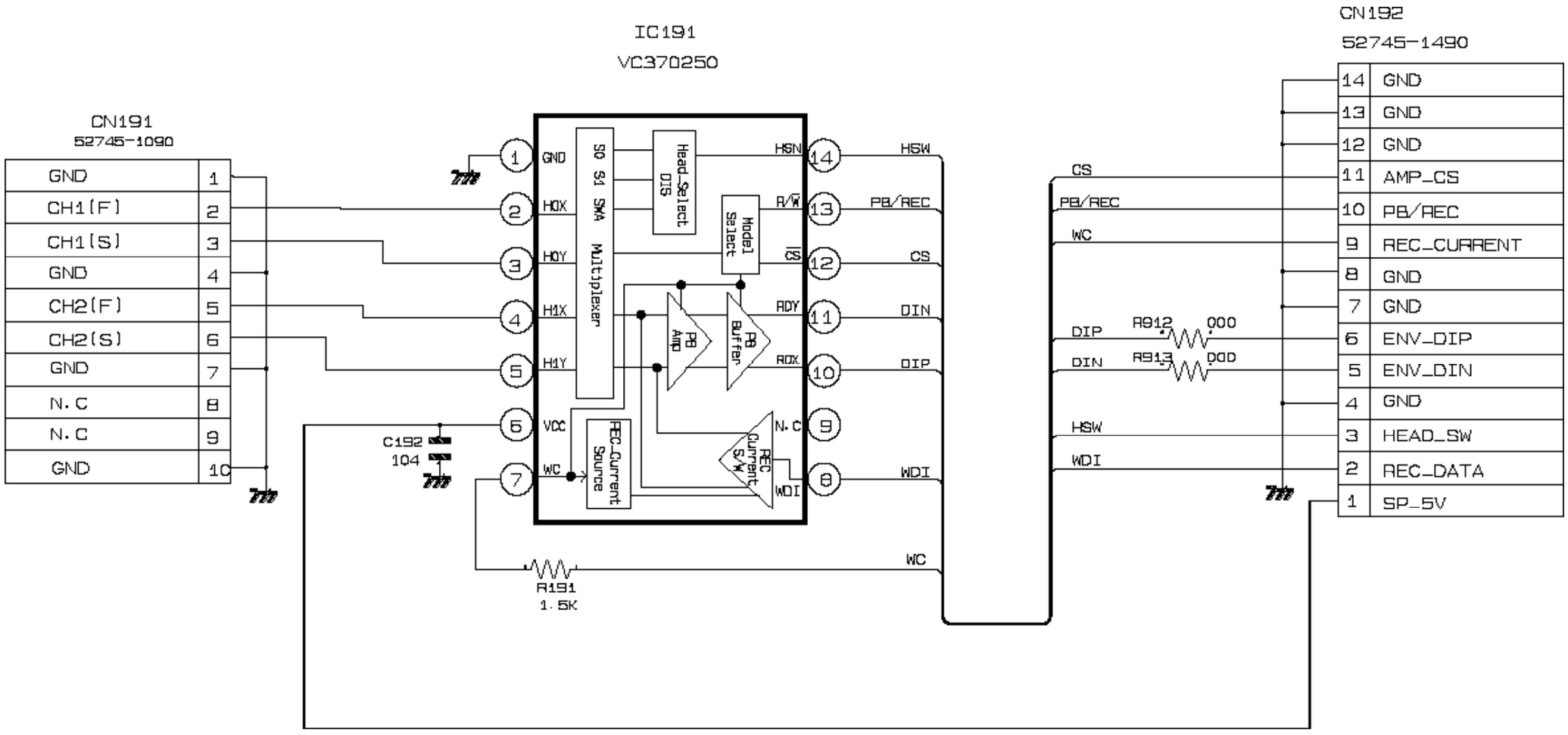
8-16 Video


1394
AUDIO
TIMER MICOM
DC-DC
A/V DSP
IC301
M35040-064FP
IC303
IC302
CN301
52899-4052
TIMER MICOM

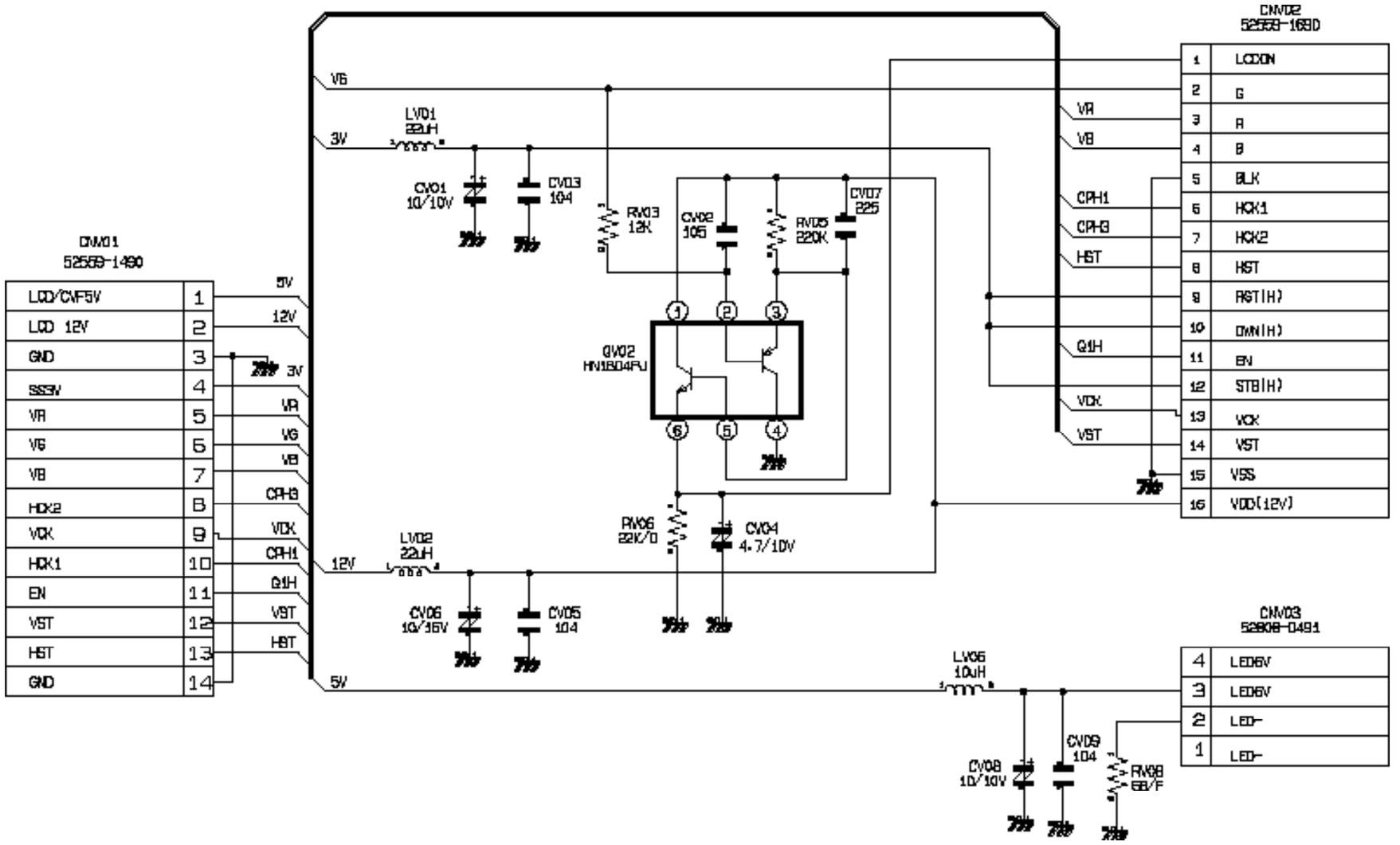
8-17 LCD



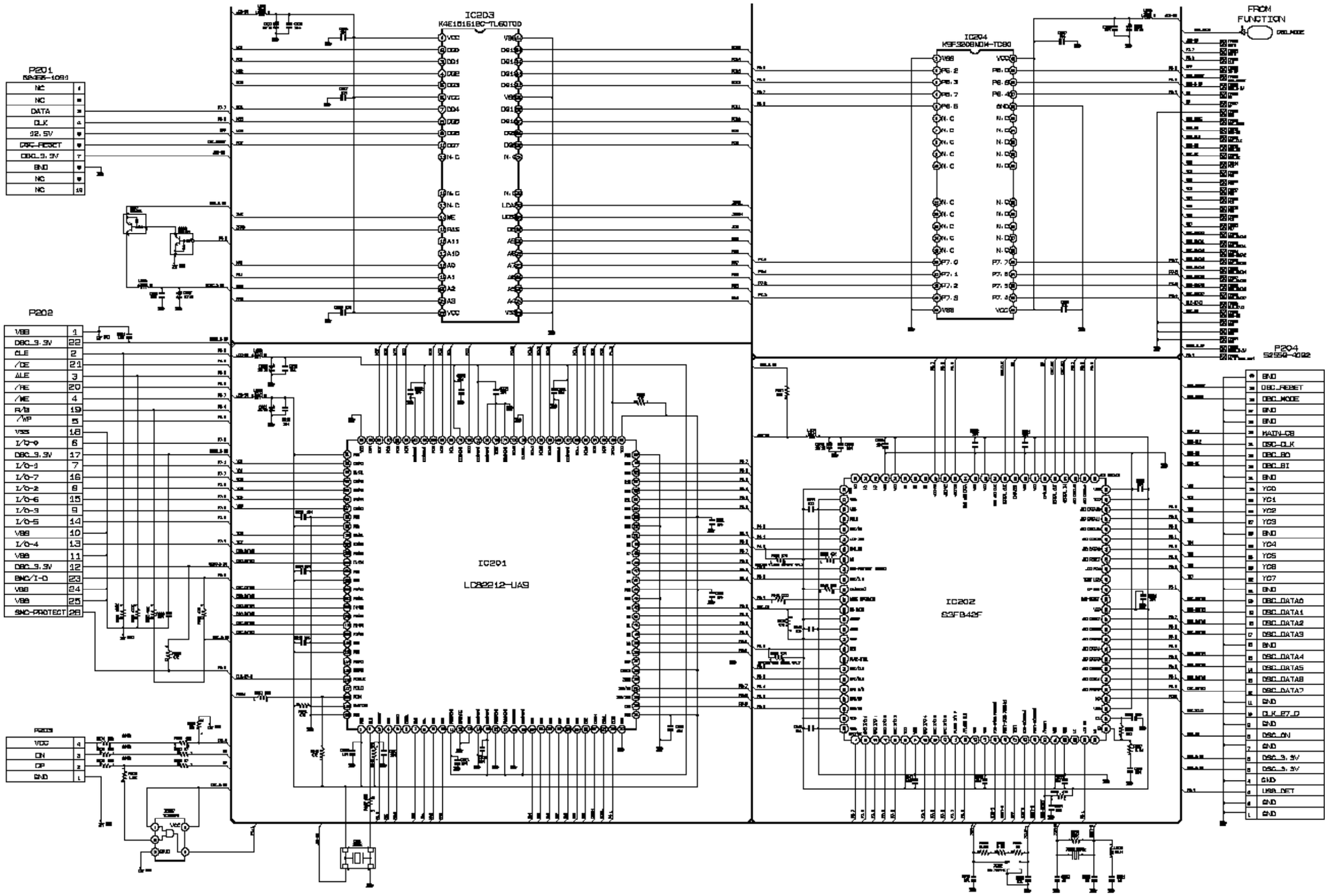
8-18 Pre Amp


CN191
52745-1090
GND 1
CH1(F) 2
CH1(S) 3
GND 4
CH2(F) 5
CH2(S) 6
GND 7
N.C 8
N.C 9
GND 10
IC191
VC370250
GND
HOX
HOY
H1X
H1Y
VCC
WC
SO S1 SWA Multiplexer
Head-Select DIS
Model Select
RD AMP
RD Buffer
REC-Current Source
REC Current S/W
HSN
R/W
CS
RDY
RDX
N.C
WDI
C192
104
R191
1.5K
CN192
52745-1490
14 GND
13 GND
12 GND
11 AMP_CS
10 PB/REC
9 REC_CURRENT
8 GND
7 GND
6 ENV_DIP
5 ENV_DIN
4 GND
3 HEAD_SW
2 REC_DATA
1 SP_5V
CS
PB/REC
WC
DIP
DIN
R912
000
R913
000
HSW
WDI

8-19 CVF


CNV01
52569-1490
LCD/CVF5V 1
LCD 12V 2
GND 3
SSSV 4
VR 5
VG 6
VB 7
HCK2 8
VCK 9
HCK1 10
EN 11
VST 12
HST 13
GND 14
5V
12V
3V
VR
VG
VB
CPH3
VCK
CPH1
Q1H
VST
HST
VG
3V
12V
5V
LV01
22uH
CV01
10/10V
CV03
104
RV03
12K
CV02
105
RV05
220K
CV07
225
QV02
HN1B04FU
RV06
22K/D
CV04
4.7/10V
LV02
22uH
CV06
10/16V
CV05
104
LV05
10uH
CV08
10/10V
CV09
104
RV08
68/F
CNV02
52559-1690
1 LCDON
2 G
3 R
4 B
5 BLK
6 HCK1
7 HCK2
8 HST
9 RST(H)
10 DWN(H)
11 EN
12 STB(H)
13 VCK
14 VST
15 VSS
16 VDD(12V)
CNV03
52908-0491
4 LED6V
3 LED6V
2 LED-
1 LED-

8-20 USB / DSC


IC203
K4E151611C-TL60T00
IC204
K9F5608W0M-TCB0
FROM FUNCTION
P201
P202
P204
52550-4022
IC201
LC82212-UA9
IC202
S3FB42F